

## Chapter 6

# Challenges and Opportunities for Virtual Universities in the 21<sup>st</sup> Century

**Luísa Margarida Cagica Carvalho**

*Universidade Aberta, Portugal & CEFAGE, University of Évora, Portugal*

### ABSTRACT

*This chapter aims to provide a theoretical approach concerning challenges and opportunities to virtual universities in 21<sup>st</sup> century. Virtual universities have an important role in capturing different audiences to the e-learning programs, such as long life learning, executive programs, etc. Additionally, the virtual model allows a more efficient internationalization of the education and improves the attraction of the students from several countries. Nevertheless, the virtual universities front some problems and challenges on the global education market and could be important to identify and present some good practices followed by virtual universities around the world. This chapter presents some remarks about virtual universities, the advantages and challenges fronted, and the case of the Portuguese virtual university, Open University of Lisbon, as a complement to the theoretical approach.*

### INTRODUCTION

The democratization of higher education and the emergence of the Information and Communication Technologies (ICT) represent a central argument for this change on boundaries (Guri-Rosenblit, 2001). ICT are implanted in economic and social structures of the several countries. ICT comes also as an important tool in education. Furthermore, ICT have encouraged higher education institutions to enter in the “distance education business” at various levels of experimentation and applica-

tion (Bates, 1995, 1999; Evans & Nation, 2000; Khan, 1997; Littleton & Light, 1999; Rumble, 1996; Selinger & Pearson, 1999; Trow, 1999). ICT contributed to change the status of distance education within the academic world. Traditionally distance teaching was regarded as operating on the margins of higher education systems (Guri-Rosenblit, 1999). See Table 1 with the concept of distance education.

Currently, millions of people, traditional students and working adults students, are studying

DOI: 10.4018/978-1-4666-7316-8.ch006

*Table 1. Distance learning*

Distance learning or distance education is a mode of delivering education and instruction on conditions which occur due to the limited traditional teaching-learning methods in a classroom where it is not possible to carry out in class activities and therefore the interaction and communication between the planners of educational activities and the practitioners and the students are provided from a specific centre via specially prepared teaching units and various means (Alkan, 1987: cited by Gurbuz, 2014). Distance learning is the most modern education system, which is independent of time, and distance, enables individualized education opportunities, and is implemented via information technologies and especially via Internet (Baturay & Bay, 2009: cited by Gurbuz, 2014).

Source: Gurbuz, 2014, p.240

through distance teaching methods for a plethora of reasons and purposes (Guri-Rosenblit, 2001).

Nevertheless, are yet in development new and more efficient ways to operate and to carry out pedagogical and organizational innovation (Ossiannilsson, 2011). In the last decade, digital world becomes popular in all learning and educational activities and push the boundaries in daily life, in a global sustainable environment (Bates, 2010; Bonk, 2009; Conole, 2010; Ehlers & Pawlowski, 2006).

Other authors (Ehlers & Svhneckenberg, 2010; Johnson et al, 2011; O'Reilly & Batelle, 2009) argue that there is no longer a need for definition for e-learning due their role and implications on a huge number of fields.

Bonk (2009) provide a new inside to this topic with the concept of ubiquitous learning (u-learning). This perspective focused on the personalisation and in learners' rights and responsibilities.

Nowadays, several institutions offering distance teaching or using ICT, though there are differences influenced by different academic cultures dominant in various higher education systems (Rothblatt, 1997). These cultural differences influence the adoption of new traditions and teaching innovations (Guri-Rosenblit, 2001). Its possible to note important differences among different higher education systems in their attitudes towards distance education.

Furthermore, other studies suggest that more rigorous research is required in the field of state-level virtual universities (Xu & Morris, 2009). Some conclusions about this topic are based on

opinions and in the individual case reports and not on rigorous research methods, and reveal limitations to understanding the concept of virtual university (Epper & Garn, 2003; Smith, 1998; Wolf & Johnstone, 1999) or the organizational models of virtual universities (Dutton & Loader, 2002; Farrell, 1999; Hanna, 2000), and created various frameworks to analyze policies and structures of virtual universities (Berge, 1998; Gellman-Danley & Fetzner, 1998; Rosevear, 1999).

This chapter are organized in the following sections: virtual universities (provide some remarks about the models of virtual universities); dimensions of e-learning (explore the e-learning methodologies, attending to the student behaviour and attitudes); technology and e-learning (consider the impact and relation of the technology with e-learning); instructional strategies (explain some instructional strategies to achieve learning objectives); virtual universities (virtual universities front some problems and challenges on the global education market in XXI century); quality challenge (quality is a challenge and a key factor fronted by virtual universities); the case of Open University – Portugal and some remarks and good practices.

## **VIRTUAL UNIVERSITIES: SOME KEY REMARKS**

Accompanying global technological changes education changed tremendously over the last years. Technology, mainly Information Technology (IT)

21 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:

[www.igi-global.com/chapter/challenges-and-opportunities-for-virtual-universities-in-the-21st-century/121229](http://www.igi-global.com/chapter/challenges-and-opportunities-for-virtual-universities-in-the-21st-century/121229)

## Related Content

---

### Creating Positive E-Learning Experiences for Online Students

Ryan Watkins (2009). *Encyclopedia of Distance Learning, Second Edition* (pp. 517-524).

[www.irma-international.org/chapter/creating-positive-learning-experiences-online/11802](http://www.irma-international.org/chapter/creating-positive-learning-experiences-online/11802)

### A Review of Personalised E-Learning: Towards Supporting Learner Diversity

Eileen O'Donnell, Séamus Lawless, Mary Sharp and Vincent P. Wade (2015). *International Journal of Distance Education Technologies* (pp. 22-47).

[www.irma-international.org/article/a-review-of-personalised-e-learning/123206](http://www.irma-international.org/article/a-review-of-personalised-e-learning/123206)

### Factors Influencing E-Portfolio Use and Students' Approaches to Learning in Higher Education

Andrea Ximena Castaño Sánchez, Ángel Pío González Soto and José Miguel Jiménez González (2015). *International Journal of Information and Communication Technology Education* (pp. 39-52).

[www.irma-international.org/article/factors-influencing-e-portfolio-use-and-students-approaches-to-learning-in-higher-education/127720](http://www.irma-international.org/article/factors-influencing-e-portfolio-use-and-students-approaches-to-learning-in-higher-education/127720)

### Project Management and Graduate Education

Daniel Brandon (2008). *Online and Distance Learning: Concepts, Methodologies, Tools, and Applications* (pp. 2833-2839).

[www.irma-international.org/chapter/project-management-graduate-education/27591](http://www.irma-international.org/chapter/project-management-graduate-education/27591)

### Positioning the Learning Organization for a Successful Distance Education Strategy

Monique Fuchs and Stephanie Cheney (2010). *Distance Learning Technology, Current Instruction, and the Future of Education: Applications of Today, Practices of Tomorrow* (pp. 302-316).

[www.irma-international.org/chapter/positioning-learning-organization-successful-distance/39463](http://www.irma-international.org/chapter/positioning-learning-organization-successful-distance/39463)